KIYALA HIGH SCHOOL
END OF TERM I ASSESSMENT TEST 2025
CHEMISTRY
S.4

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

- *The paper consists of **two** Sections; **A** and **B.** It has **six** examination items.*
- *Section **A** has **two compulsory** items. Answers to this section must be written in the spaces provided in this booklet.*
- *Section **B** has two Parts; **I** and **II:** Answer **one** item from each part.*
- *Answer **four** items in all.*
- *Section **B must** be written on the answer booklet (s) provided.*

SECTION A

Answer both items from this section in the spaces provided

Item 1

The primary school in the highlands of Kabale has a roof made of corrugated iron sheets, installed several years ago when the school was built. Over the past few rainy seasons, the community has noticed the development of numerous reddish-brown patches and streaks across the once shiny metal. In some areas, the rust seems quite thick and flaky.

During heavy downpours, some classrooms now experience minor drips, especially along the seams and around where the rust is most prominent. The school's Headteacher is concerned about the long-term integrity of the roof and wants to understand more about this substance.

Task;

As a learner of chemistry;

a) Give the category of the material used to make the roof. (03 scores)

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b) Suggest alternative ways to reduce rusting of roof tops. (02 Scores)

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c) Beyond just drips, what are the potential structural consequences of continued rust on the school roof? (03 scores)

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Item 2.

Fatuma has a persistent headache. She goes to a local pharmacy and buys a small packet of white tablets. The pharmacist advises her on the dosage.

She takes the tablets with water and her headache eventually subsides. She then throws the empty tablet packet in the waste bin at home.

Task;

As a learner of chemistry;

a) Suggest the;

i. Category of the Product Fatuma uses. (03 scores)

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ii. Function of the Product. (02 scores)

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b) Evaluate the product. (2 Scores)

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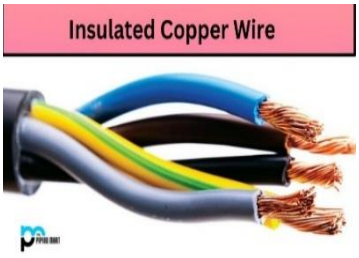
SECTION B

Part I

Answer one item from this part on the answer sheets provided.

Item 3.

In Uganda, copper wires are used mainly for transmitting electric power. To ensure the availability of wires, the government is considering setting up a copper production plant in a certain area.



However, the residents of the area need to be sensitized about the industrial processes, social benefits, side effects and how they can be overcome.
Your head teacher has been identified to sensitize the residents.

Task;

As a learner of Chemistry, prepare a write-up that your head teacher will use to sensitize the residents.

(10 scores)

Item 4.

A cooperative of small-scale farmers in a rural agricultural region of Uganda needs a reliable and affordable source of Sulphuric acid for producing phosphate fertilizers (a crucial input for their crops). Transporting large quantities of commercially produced Sulphuric acid from distant industrial areas is expensive and logistically challenging. They are exploring the feasibility of establishing a small-scale Sulphuric acid production unit within their region, using locally sourced sulphur-containing materials if possible and are planning to invite you for help.

Task;

As a chemistry learner, make a write up you will use upon invitation. (10 scores)

Part II

Answer one item from this part on the answer sheets provided.

Item 5.

The degradation of natural resources in Uganda is a significant challenge that requires sustainable management practices and conservation efforts to ensure the long-term health and viability of the country's ecosystems.

The officials from National Environment Management Authority (NEMA) are planning to sensitize the people countrywide about sustainability of natural resources through a national wide television broadcast. You have been invited by one of the officials from NEMA to have your say on this matter.

Task;

Prepare a presentation you will deliver on the national wide television broadcast. (10 scores)

Item 6.

A rapidly growing industrial area near your town relies heavily on coal-fired power plants and older, less efficient factories. Residents have noticed a significant increase in respiratory problems, especially among children and the elderly. The local health clinic is reporting a surge in asthma cases and other lung-related illnesses. This has prompted the officials to create awareness to people on community meeting under the theme "CLEAN AIR: A BREATHING RIGHT," .

Task;

As a chemistry learner, prepare a presentation for a community meeting. (10 scores)

SUCCESS